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## FIGURES

FIG. 1

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## FIG. 2

GCAATTCTCCTTCCGTTGCCAAGTGCAACCCCAATAGAAAAACTCAAAGTCAAGAACT 60  
 AGCTAACAGAGAAAACCACAATTCATCAATTGGAGGGGTTTGCCATTTCATCCTT 120  
 GCAACAAATGGAGTTCCCAAATCAAGCACCCGAGAGCTCCTCCCAGAAAAATTGGGAAGG 180  
 M E F P N Q A P E S S S Q K K L [G R] MADS-BOX  
 GGCAAAATTGAGATTAAGCGGATCGAAAACACTACAAATCGACAAGTTACCTCTGCAAA 240  
 [G K I E I K R I E N T T N R Q V T F C K]  
 CGCCGCAACGGATTGCTTAAGAAAAGCCTATGAATTGTCTGTTCTGTGATGCTGAAGTT 300  
 [R R N G L L K K A Y E L S V L C D A E V]  
 GCTCTTATCGTGTCTCCAACCGTGGCGCCTCTATGAGTATGCTAACAAACAGTGTAGA 360  
 [A L I V F S N R G R L Y E Y A N N S V R]  
 GCAACAAATCGACAGGTACAAAAAAGCATACGCTGATCCTACGAACAGTGGATCTGTTCA 420  
 A T I D R Y K K A Y A D P T N S G S V S K-domain  
 GAAGCCAACACTCAGTTTATCAGCAGGAAGCATCCAAACTGCGAAGACAGATCCGAGAA 480  
 [E A N T Q F Y Q Q E A S K L R R Q I R E]  
 ATTTCAGAATTCAAACAGGCATA TAC TG GGTGAAGCTCTAGCTCCTGAAACGCCAAGGAA 540  
 [I Q N S N R H I L G E A L S S L N A K E]  
 CTGAAGAACCTAGAAGGAAGATTGGAGAAAGGAATCAGCAGAATAAGATCCAAAAGAAT 600  
 [L K N L E G R L E K G I S R I R S K K N]  
 GAAATGCTGTTTCTGAAATCGAATTCTGCAACAAAGGGAGACCGAGCTGCAACACAC 660  
 [E M L F S E I E F M Q K R E T E L Q H H]  
 AACAAATTCTGAGAGCAAGATAGCTGAAACAGAGGGAGAGCAGCAGCATACACAC 720  
 [H N F L R A K I A E N E R E E Q Q H T H]  
 ATGATGCCGGAACTTCTACGATCAGTCATGCCTCGCATTCTTGACAGGAACCTTC 780  
 M M P G T S Y D Q S M P S H S Y D R N F  
 CTCCCAGCGGTGATCTGGAGTCCAACAAATAACCATTACCCCTACCAAGTCCAGACAGCT 840  
 L P A V I L E S N N N H Y P H Q V Q T A  
 CTCCAACCTGTTGAAATGCTGGACTGCCGTCTGAT 876  
 L Q L V .

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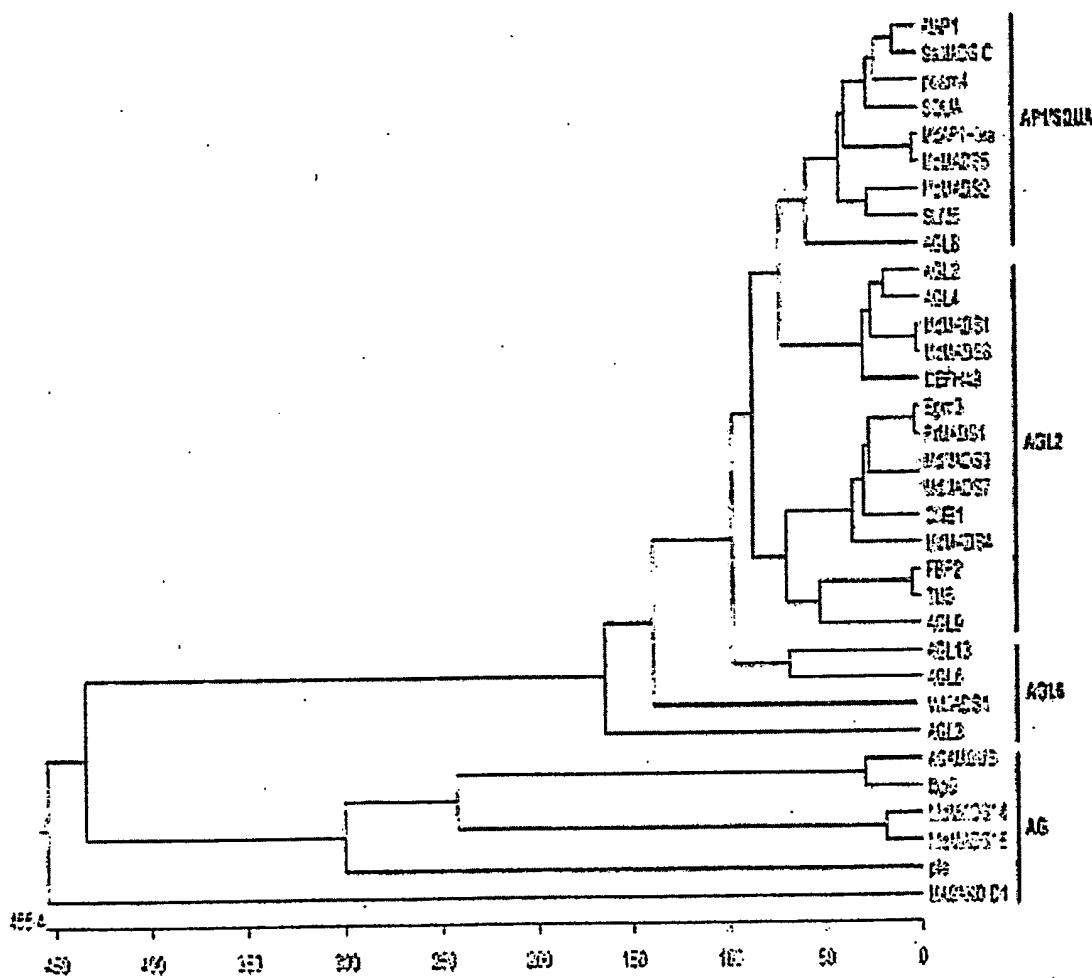
## FIG. 3

1	M E F A N Q A P E S S T Q K K L G R G K I E I K R I E N T T	MgMADS14
1	M E F P N Q A P E S S S Q K K L G R G K I E I K R I E N T T	MgMADS16
31	N R Q V T F C K R R N G L L K K A Y E L S V L C D A E V A L	MgMADS14
31	N R Q V T F C K R R N G L L K K A Y E L S V L C D A E V A L	MgMADS16
61	I V F S T R G R L Y E Y A N N S V R A T I D R Y K K A C A D	MgMADS14
61	I V F S N R G R L Y E Y A N N S V R A T I D R Y K K A Y A D	MgMADS16
91	S T D G G S V S E A N T Q F Y Q Q E A S K L R R Q I R E I Q	MgMADS14
91	P T N S G S V S E A N T Q F Y Q Q E A S K L R R Q I R E I Q	MgMADS16
121	N S N R H I L G E S L S T L K V A K E L K N L E G R L E K G I	MgMADS14
121	N S N R H I L G E A L S S L N A K E L K N L E G R L E K G I	MgMADS16
151	S R I R S K K N E I L F S E I E F M Q K R E T E L Q H H N N	MgMADS14
151	S R I R S K K N E M L F S E I E F M Q K R E T E L Q H H N N	MgMADS16
181	F L R A K I A E S E R E Q Q Q Q Q T H M I P G T S Y D P S M	MgMADS14
181	F L R A K I A E M E R E E Q Q H - T H M M P G T S Y D Q S M	MgMADS16
211	P S N S Y D R N F F P - V I L E S N N N N H Y P R Q G Q T A L	MgMADS14
210	P S H S Y D R N F L P A V I L E S N N N N H Y P H Q V Q T A L	MgMADS16
240	Q L V (100%)	MgMADS14
240	Q L V (88.4%)	MgMADS16

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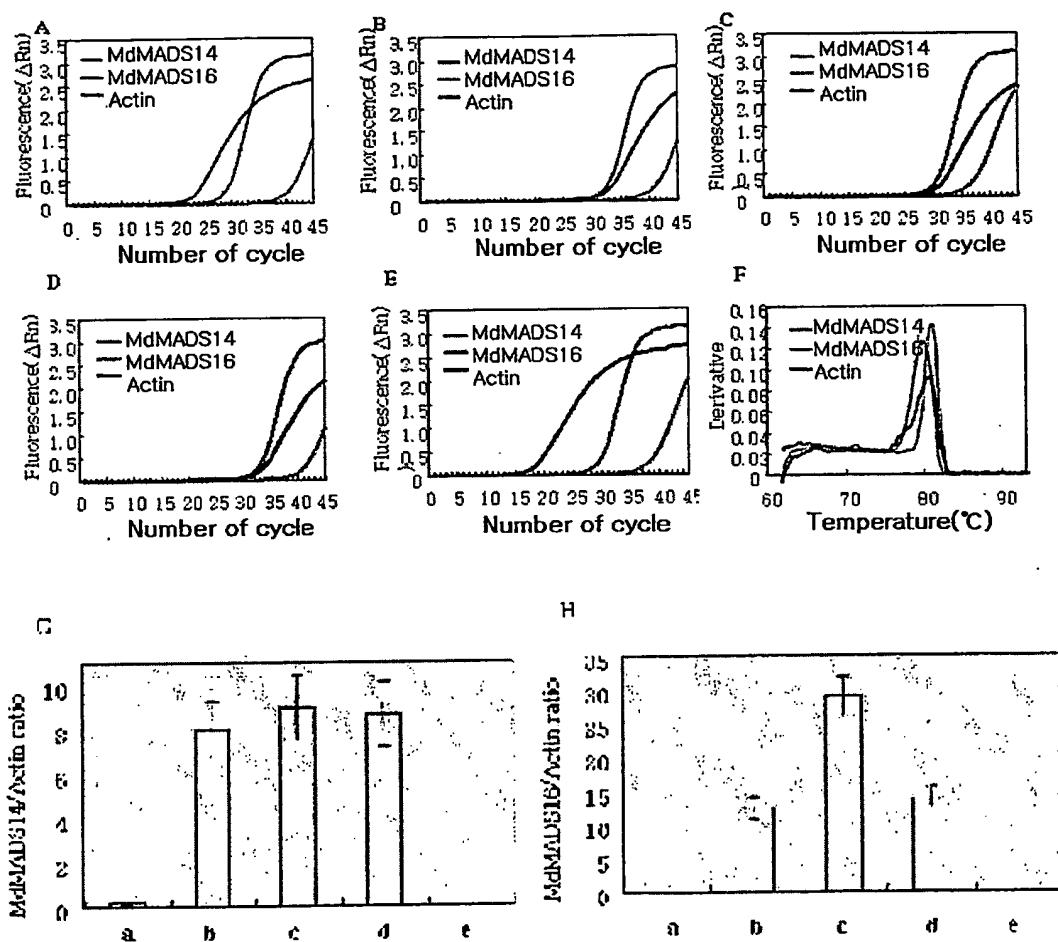
**FIG. 4**



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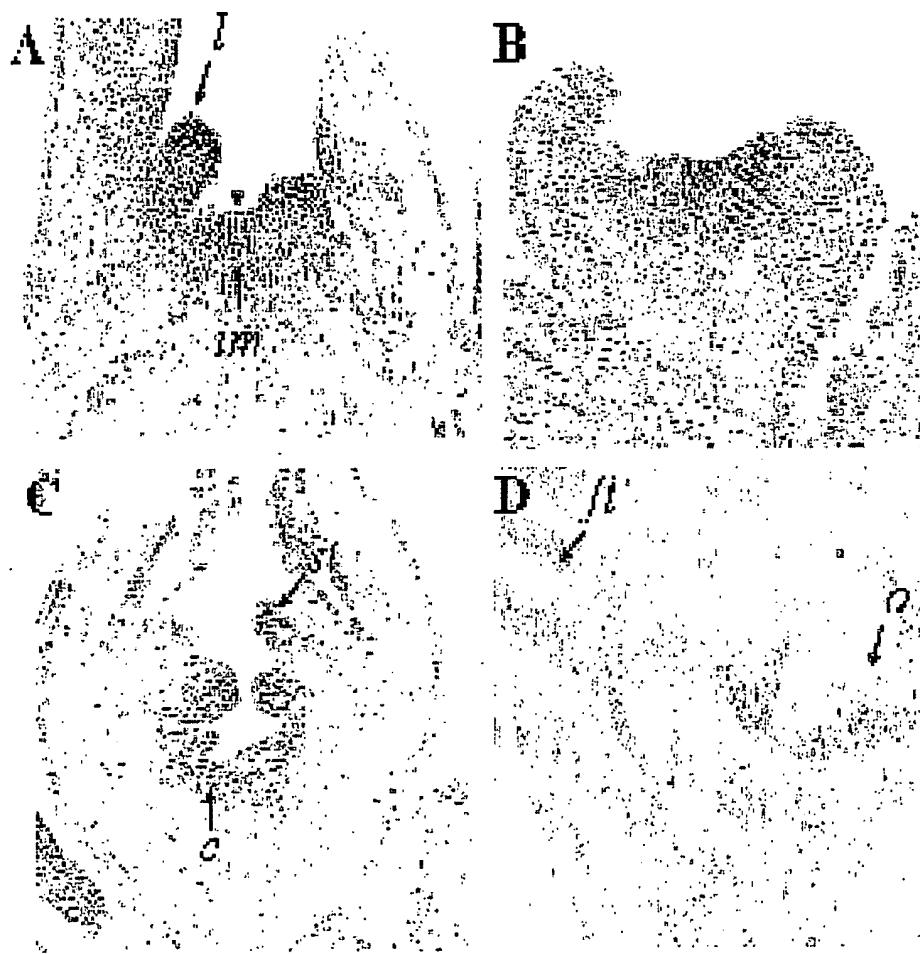
FIG. 5



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FIG. 6

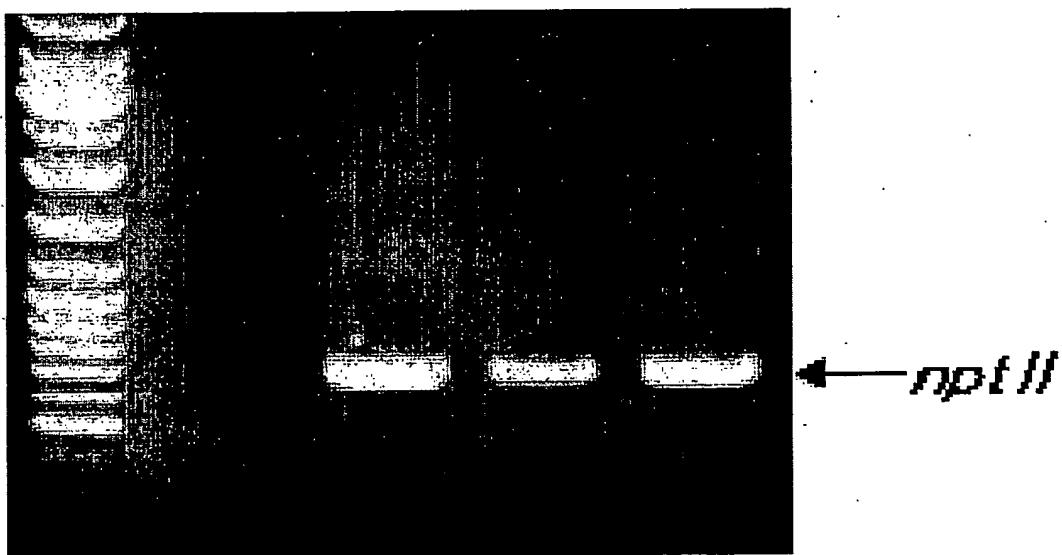


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FIG. 7

a      b      c      d



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FIG. 8

Wild type

MdMADS14  
Sense I



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